CLAIMS:

5

1.   Method of transmitting first data packets from a transmitter to a receiver, wherein the first data packets are transmitted from the transmitter to the receiver in containers, wherein each of the containers is provided with a sequence number, the method comprising the steps of: determining a transmission abortion where a

10   transmission of a first container which comprises a first number of second data packets of the first data packets is aborted; wherein the first container is provided with a first sequence number; selecting a second number of third data packets from the first number of second data packets; wherein the first number is larger than the second number; forming a second container comprising the second number of third data packets; and

15   transmitting the second container with the first sequence number.

2.   The method of claim 1, wherein a third number of fourth data packets which are left over when forming the second number of third data packets, is deleted.

20   3.   The method of claim 1, wherein the second container provides stronger forward error correction than the first container.

4.   The method of claim 1, wherein the third data packets are selected from the second data packets on the basis of the order of the second data packets according to

25   which they are arranged in the first container.

5.   The method of claim 1, wherein the third data packets are selected from the second data packets in accordance with an urgency with which they are required at the receiver.

30

6.   The method of claim 1, wherein the second and third data packets are service data units of a first protocol layer, which forms the first and second containers; wherein the first, second and third data packets are segmented from a plurality of fifth data packets in the transmitter; wherein the fifth data packets are service data units of a second protocol layer which is at a level above the first protocol layer; wherein sixth data packets are received at the receiver; wherein the fifth data packets are rebuilt from selected ones of the sixth data packets; and wherein the third data packets are selected such that the fifth data packets can be rebuilt at the receiver.

7.   The method of claim 1, wherein the second and third data packets are service data units of a first protocol layer, which forms the first and second containers; wherein the first, second and third data packets are segmented from a plurality of fifth data packets in the transmitter; wherein the fifth data packets are service data units of a second protocol layer which is at a level above the first protocol layer; wherein the third data packets are selected such that they belong to fifth data packets for which seventh data packets have been received earlier at the receiver.

8.   The method of claim 1, wherein the third data packets are selected from the second data packets at random.

9.   The method of claim 1, wherein the third data packets are selected from the second data packets such that a loss of synchronization of a serial number, which forms a time varying input for a ciphering and deciphering, between the transmitter and the receiver is avoided.

10.   The method of claim 1, wherein the third data packets are selected such that a third number of logical channels affected by the reduction of the first number of second data packets to the second number of third data packets is minimized.

11. The method of claim 1, wherein the second data packets which were not selected as third data packets are transmitted to the receiver in a third container with a third sequence number.

5 12. The method of claim 1, wherein the method is applied for a control of a retransmission of the HARQ protocol on the High Speed Downlink Shared Channel in UMTS.

13. Data transmission system for transmitting first data packets from a
10 transmitter to a receiver, wherein the first data packets are transmitted from the transmitter to the receiver in containers, wherein each of the containers is provided with a sequence number, wherein the data transmission system is adapted to perform the following operation: determining a transmission abortion where a transmission of a first container which comprises a first number of second data packets of the first data packets
15 is aborted; wherein the first container is provided with a first sequence number; selecting a second number of third data packets from the first number of second data packets; wherein the first number is larger than the second number; forming a second container comprising the second number of third data packets; and transmitting the second container with the first sequence number.
20

14. A transmitter for a data transmission system, wherein the transmitter is adapted to transmit first data packets to a receiver, wherein the first data packets are transmitted from the transmitter to the receiver in containers, wherein each of the containers is provided with a sequence number, wherein the transmitter is adapted to
25 determine a transmission abortion where a transmission of a first container which comprises a first number of second data packets of the first data packets is aborted; wherein the first container is provided with a first sequence number; select a second number of third data packets from the first number of second data packets; wherein the first number is larger than the second number; form a second container comprising the
30 second number of third data packets; and transmit the second container with the first sequence number to the receiver.

15.   A receiver for a data transmission system, wherein the receiver is adapted to receive first data packets transmitted from a transmitter, wherein the first data packets are transmitted from the transmitter to the receiver in containers, wherein each of the

5   containers is provided with a sequence number, wherein a first container has been received by the receiver including a first number of second data packets, the first container having a first sequence number; wherein the receiver is adapted to receive a second container including a second number of second data packets; wherein the first number is larger than the second number; wherein the second container has the first

10   sequence number.

16.   A software program for performing a transmission of first data packets from a transmitter to a receiver, wherein the first data packets are transmitted from the transmitter to the receiver in containers, wherein each of the containers is provided with

15   a sequence number, the software program performing the steps of: determining a transmission abortion where a transmission of a first container which comprises a first number of second data packets of the first data packets is aborted; wherein the first container is provided with a first sequence number; selecting a second number of third data packets from the first number of second data packets; wherein the first number is

20   larger than the second number; forming a second container comprising the second number of third data packets; and transmitting the second container with the first sequence number.